

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5445973").PN.	US-PGPUB; USPAT	OR	OFF	2010/12/16 12:25
L2	25	("1551850"   "2729190"   "2885997"   "4121537"   "4335266"   "4392931"   "4508748"   "4583488"   "4851095"   "4904362"   "5154810").PN. OR ("5445973").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:25
L3	19	2 and rotat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:25
L4	13	2 and rotatabl\$2	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:26
L5	88	seleniz\$7 and rotat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:27
L6	89	seleniz\$7 and rotat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:27
L7	6	seleniz\$7 same rotat \$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:30
L8	6	CIGS! and ((pvdf! "physical vapor deposition") with sputter\$3) with chamber	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:31
L9	257	CIGS! and ((pvdf! "physical vapor deposition") with sputter\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:31

L10	6	seleniz\$7 same (rotat \$4 rotatab\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:32
L11	684	selenide same (rotat \$4 rotatab\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:33
L12	8	ClGS! and selenide same (rotat\$4 rotatab \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:33
L13	10	ClGS! and selenium same (rotat\$4 rotatab \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:33
L14	40	seleniz\$7 and (rotat \$4 rotatab\$3) with (substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:34
L15	9	seleniz\$7 and (rotat \$4 rotatab\$3) with (chamber cabinet mount mounting holder)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:35
L16	43	14 15	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/16 12:35
L17	0	seleniz\$7 same (diffus \$4) same preheat\$3 same \$2crystaliz\$6	US-PGPUB; USPAT	OR	ON	2010/12/16 13:32
L18	0	seleniz\$7 same (diffus \$4) same \$2crystaliz \$6	US-PGPUB; USPAT	OR	ON	2010/12/16 13:44
L19	0	seleniz\$7 and (diffus \$4) same \$2crystaliz \$6	US-PGPUB; USPAT	OR	ON	2010/12/16 13:44
L20	72	seleniz\$7 and (diffus \$4) same \$2crystaliz\$6	US-PGPUB; USPAT	OR	ON	2010/12/16 13:44
L21	16	seleniz\$7 and (diffus \$4) same \$2crystalliz \$6	US-PGPUB; USPAT	OR	ON	2010/12/16 13:45
S1	9	seleniz\$6 with third	US-PGPUB; USPAT	OR	ON	2010/02/25 17:01
S2	1	("6092669").PN.	US-PGPUB; USPAT	OR	OFF	2010/02/25 17:03
S3	0	S2 and seleniz\$6 and selenide	US-PGPUB; USPAT	OR	ON	2010/02/25 17:04
S4	1	S2 and seleniz\$6	US-PGPUB; USPAT	OR	ON	2010/02/25 17:04

S5	0	s2 and selenide	US-PGPUB; USPAT	OR	ON	2010/02/25 17:04
S6	28	seleniz\$ same hydrogen adj selenide	US-PGPUB; USPAT	OR	ON	2010/02/25 17:05
S7	18	seleniz\$ with temperature and hydrogen adj selenide	US-PGPUB; USPAT	OR	ON	2010/02/25 17:11
S8	2	seleniz\$ and upright and rotat\$3	US-PGPUB; USPAT	OR	ON	2010/02/25 17:22
S9	12	seleniz\$ and (vertical upright) and rotat\$3	US-PGPUB; USPAT	OR	ON	2010/02/25 17:22
S10	5	seleniz\$ same rotat \$3	US-PGPUB; USPAT	OR	ON	2010/02/25 17:24
S11	2	seleniz\$ same angle	US-PGPUB; USPAT	OR	ON	2010/02/25 17:29
S12	0	seleniz\$ same tilt\$3	US-PGPUB; USPAT	OR	ON	2010/02/25 17:29
S13	1	seleniz\$ same cabinet	US-PGPUB; USPAT	OR	ON	2010/02/25 17:30
S14	3	seleniz\$ and cabinet	US-PGPUB; USPAT	OR	ON	2010/02/25 17:30
S15	4	seleniz\$ same (vertical upright)	US-PGPUB; USPAT	OR	ON	2010/02/25 17:37
S16	37	seleniz\$ and (vertical upright)	US-PGPUB; USPAT	OR	ON	2010/02/25 17:37
S17	3	seleniz\$ same (pulse evacuat\$3)	US-PGPUB; USPAT	OR	ON	2010/02/26 11:35
S18	93	seleniz\$ and (pulse evacuat\$3)	US-PGPUB; USPAT	OR	ON	2010/02/26 11:54
S19	123	seleniz\$ and (puls\$3 evacuat\$3)	US-PGPUB; USPAT	OR	ON	2010/02/26 11:54
S20	31	seleniz\$ and hydrogen adj selenide and CIGS	US-PGPUB; USPAT	OR	ON	2010/02/26 12:59
S21	2	seleniz\$6 with evacuat\$3	US-PGPUB; USPAT	OR	ON	2010/06/22 13:14
S22	3	seleniz\$6 same evacuat\$3	US-PGPUB; USPAT	OR	ON	2010/06/22 13:15
S23	95	selenide same evacuat\$3	US-PGPUB; USPAT	OR	ON	2010/06/22 13:15

S24	4	selenide same evacuat\$3 and (Cl GS! chalcopyrite)	US-PGPUB; USPAT	OR	ON	2010/06/22 13:20
S25	18	honda.asnm. and (Cl GS! chalcopyrite)	US-PGPUB; USPAT	OR	ON	2010/06/22 13:22
S26	226	seleniz\$6 and (Cl GS! chalcopyrite)	US-PGPUB; USPAT	OR	ON	2010/06/22 15:53
S27	181	seleniz\$6 and (Cl GS! chalcopyrite) and alloy	US-PGPUB; USPAT	OR	ON	2010/06/22 15:54
S28	227	((source gas) near4 selenium) seleniz\$6) and (Cl GS! chalcopyrite) and alloy	US-PGPUB; USPAT	OR	ON	2010/06/23 14:30
S29	3	("4798660") or ("4915745") or ("5045409").PN.	US-PGPUB; USPAT	OR	OFF	2010/06/23 14:45
S30	32	((source gas) near4 selenium) seleniz\$6) same (evacuat\$3)	US-PGPUB; USPAT	OR	ON	2010/06/23 15:12
S31	62	((source gas) near4 selenium) seleniz\$6) same (discharg\$3)	US-PGPUB; USPAT	OR	ON	2010/06/23 15:17
S32	0	((source gas) near4 selenium) seleniz\$6) and (Cl GS! chalcopyrite) and alloy and evactuat\$3	US-PGPUB; USPAT	OR	ON	2010/06/23 15:27
S33	38	((source gas) near4 selenium) seleniz\$6) and (Cl GS! chalcopyrite) and alloy and evactuat\$3	US-PGPUB; USPAT	OR	ON	2010/06/23 15:27
S34	28	Cl GS! and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy and (upright vertical) and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 10:48
S35	174	Cl GS! and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 10:49

S36	295	CIGS! and (upright vertical)	US-PGPUB; USPAT	OR	ON	2010/06/24 10:49
S37	68	CIGS! and (upright vertical) with (chamber substrate cabinet)	US-PGPUB; USPAT	OR	ON	2010/06/24 10:49
S38	14	(chalcopyrite CIGS!) and (upright vertical) with (chamber substrate cabinet) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 10:51
S39	53	(chalcopyrite CIGS!) and (upright vertical) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 10:52
S40	24	(CIGS!) and (upright vertical) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 10:53
S41	18	CIGS! and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy and (seleni\$8) same puls\$3	US-PGPUB; USPAT	OR	ON	2010/06/24 13:36
S42	30	CIGS! and (seleni\$8) same puls\$3	US-PGPUB; USPAT	OR	ON	2010/06/24 13:36
S43	245	(solar photovoltaic CIGS!) and (seleni\$8) same puls\$3	US-PGPUB; USPAT	OR	ON	2010/06/24 13:40
S44	21	(solar photovoltaic CIGS!) and (seleni\$8) same (chamber with (clear\$3 evacuat\$3 purg\$3))	US-PGPUB; USPAT	OR	ON	2010/06/24 13:48
S45	289	(427/76).OCLS.	US-PGPUB; USPAT	OR	OFF	2010/06/24 13:54
S46	0	photovoltaic and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 13:57
S47	184	photovoltaic and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 13:57

S48	84	photovoltaic and (in! indium) with (cu! copper) near4 (ga! gallium) near4 alloy same sputter\$3 and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 13:58
S49	45	photovoltaic and (in! indium) with electrode same (cu! copper) near4 (ga! gallium) near4 alloy same sputter\$3 and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 15:06
S50	246	photovoltaic and (in! indium) with (cu! copper) with (ga! gallium) same sputter \$3 and (seleni\$8)	US-PGPUB; USPAT	OR	ON	2010/06/24 15:22
S51	184	(seleni\$) and (upright vertical) with (chamber substrate cabinet) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 16:12
S52	7	(seleni\$) same (upright vertical) with (chamber substrate cabinet) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 16:13
S53	2191	(seleni\$) same rotat\$	US-PGPUB; USPAT	OR	ON	2010/06/24 16:14
S54	5	(seleniz\$) same rotat \$	US-PGPUB; USPAT	OR	ON	2010/06/24 16:14
S55	144	(seleni\$) same rotat\$ with substrate	US-PGPUB; USPAT	OR	ON	2010/06/24 16:15
S56	15	(seleni\$) same rotat\$ with substrate and (solar chalcopyrite Cl GS! ClS!)	US-PGPUB; USPAT	OR	ON	2010/06/24 16:15
S57	1776	(427/377,380).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/06/30 16:08
S58	20	S57 and (selenide selenium)	US-PGPUB; USPAT	OR	ON	2010/06/30 16:08

**EAST Search History (Interference)**

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